Amendment under 37 C.F.R. 1.111

Clinton WALLER Jr. et al. Serial No.: 08/892,902 Filed: 14 July 1997

For: MICROPOROUS INKJET RECEPTORS CONTAINING BOTH A PIGMENT MANAGEMENT SYSTEM

& A FLUID MANAGEMENT SYSTEM

In the Claims

Please cancel claims 2-3, 6-9, 17, and 20 without prejudice. Please amend claims 1, 4-5, 10, 12, 14-16, and 18 as indicated below. Please add new claims 21-24.

1. (Amended) An inkjet receptor medium[,] comprising:

a porous substrate having a fluid management system and [having] a pigment management system in contact with surfaces of pores of the substrate [therein] wherein the pigment management system comprises functionalized particulates within the pores of the porous substrate or a functionalized coating along the surfaces of the pores of the porous substrate, and wherein the fluid management system comprises a surfactant that carries away an ink passing through the substrate except for pigment particles in the ink.

4. (Amended) The medium of Claim 11, wherein the functionalized coating comprises a multivalent metal salt that interacts with dispersants to agglomerate pigment particles as an ink containing the pigment particles passes through the pores.

(Amended) The medium of Claim [2] 1, wherein the functionalized particulates comprise fluorinated silica agglomerates that interact with dispersant to agglomerate pigment particles as an ink containing the pigment particles passes through the pores.

(Amended) The medium according to Claim [1] 21, wherein the microporous [substrate] membrane comprises a polypropylene film co-extruded with a mineral oil followed by bi-axial stretching under thermal conditions.

M. (Amended) The medium according to claim 10, wherein the microporous [substrate] membrane is an opaque film.

(Amended) The medium according to Claim [9] 1, wherein the surfactant is selected from the group consisting of fluorocarbon, silicon, hydrocarbon-based surfactants or a mixture thereof.

(Amended) The medium according to Claim 12, wherein the surfactant comprises a hydrocarbon surfactant of a [long-chain] fatty acid.

carbon surfactant of a grong-chain fatty acid.

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15. (Amended) The medium according to claim [9]1, wherein the [salts comprises] functionalized coating comprises an inorganic multivalent salt [salts] of cations derived from the elements of Group II and [abovein] above in the Periodic Table within conditions of solubility rules, wherein the salts comprises a single salt or a binary salt or a ternary salt containing counterions selected from the group consisting of nitrate, nitrite, sulfate, sulfite, bisulfite, alkanesulfonate, fluoroalkanesulfonates, perchlorate, halide, pseudo-halides, acetate, propionate, and combinations thereof.

- 16. (Amended) A method of making an inkjet receptor medium[,] comprising [the steps of]:
 - (a) preparing a pigment management system; [and]
- (b) imbibing the pigment management system into pores of a porous substrate, wherein the pigment management system [is/selected from the group consisting of functionalized particulates within the pores that chemically interact with the pigment particles through interaction with dispersants surrounding the pigment particles and a functionalized coating along the surfaces that chemically interact with pigment particles through interaction with dispersants surrounding the pigment particles vonce imbibed into the pores comprises functionalized particulates within the pores of the porous substrate or a functionalized coating along the surfaces of the pores of the porous substrate; and
- (c) imbibing a fluid management system into the pores of the porous substrate wherein the fluid management system comprises a surfactant that carries away an ink passing through the substrate except for pigment particles in the ink.
- 18. (Amended) A method of using an inkjet receptor medium[,] comprising [the steps of]:
 - (a) placing an inkjet receptor medium of claim 1 in an inkjet printer; and
- (b) printing an image on the medium using inkjet ink, wherein pigment particles are agglomerated using the pigment management system and fluid is passed through pores of the porous substrate using the fluid management system.
- 21. (New) The medium according to claim 1, wherein the porous substrate comprises a microporous membrane.
- 22. (New) An inkjet receptor medium comprising: